

116TH CONGRESS
2D SESSION

H. R. 7247

To require the Secretary of Energy to establish an integrated energy systems research, development, and demonstration program, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

JUNE 18, 2020

Mr. FULCHER (for himself and Mr. SIMPSON) introduced the following bill; which was referred to the Committee on Science, Space, and Technology

A BILL

To require the Secretary of Energy to establish an integrated energy systems research, development, and demonstration program, and for other purposes.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

3 **SECTION 1. SHORT TITLE.**

4 This Act may be cited as the “Integrated Energy Sys-
5 tems Act of 2020”.

6 **SEC. 2. INTEGRATED ENERGY SYSTEMS PROGRAM.**

7 (a) DEFINITIONS.—In this section:

8 (1) PROGRAM.—The term “program” means
9 the Integrated Energy Systems Program established
10 under subsection (b)(1).

3 (b) ESTABLISHMENT.—

(A) to maximize energy production and efficiency;

9 (B) to develop energy systems involving
10 the integration of nuclear energy with renew-
11 able energy, fossil energy, and energy storage;
12 and

13 (C) to expand the use of emissions-reduc-
14 ing energy technologies into nonelectric sectors
15 to achieve significant reductions in environ-
16 mental emissions.

(A) relevant offices within the Department
of Energy;

22 (B) National Laboratories:

23 (C) institutions of higher ed

24 (D) the private sector

1 (3) GOALS AND MILESTONES.—The Secretary
2 shall establish quantitative goals and milestones for
3 the program.

4 (c) RESEARCH AREAS.—Research areas under the
5 program may include—

6 (1) technology innovation to further the expansion
7 of emissions-reducing energy technologies to accommodate a modern, resilient grid system by—

8 (A) effectively leveraging multiple energy
9 sources;

10 (B) enhancing and streamlining engineering design;

11 (C) carrying out process demonstrations to
12 optimize performance; and

13 (D) streamlining regulatory review;

14 (2) advanced power cycles, energy extraction,
15 and processing of complex hydrocarbons to produce
16 high-value chemicals;

17 (3) efficient use of emissions-reducing energy
18 technologies for hydrogen production to support
19 transportation and industrial needs;

20 (4) enhancement and acceleration of domestic
21 manufacturing and desalination technologies and
22 processes by optimally using clean energy sources;

(5) more effective thermal energy use, transport, and storage;

(6) the demonstration of nuclear energy delivery for—

(A) the production of chemicals, metals,
and fuels;

(C) renewable integration with an integrated energy system; and

(D) conversion of carbon feedstock, such as coal, biomass, natural gas, and refuse waste, to higher value nonelectric commodities;

14 (7) the development of new analysis capabilities
15 to identify the best ways—

(A) to leverage multiple energy sources in a given region; and

(B) to quantify the benefits of integrated energy systems; and

20 (8) any other area that, as determined by the
21 Secretary, meets the purpose and goals of the pro-
22 gram.

23 (d) GRANTS.—The Secretary may award grants
24 under the program to support the goals of the program.

1 **SEC. 3. REPORT ON DUPLICATIVE PROGRAMS.**

2 Not later than 1 year after the date of enactment
3 of this Act, and annually thereafter, the Secretary shall
4 submit to Congress a report identifying any program that
5 is duplicative of the program established under section
6 2(b)(1).

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